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02355.012108

PATENT APPLICATION



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	:	Examiner: J. Wang
Kiyohide SATOH, ET AL.	)	
	:	Group Art Unit: 2672
Application No.: 09/658,463	)	
	:	Confirmation No.: 3618
Filed: September 8, 2000	)	
	:	
For: AUGMENTED REALITY	)	April 25, 2005
PRESENTATION APPARATUS	:	
AND METHOD, AND STORAGE	)	
MEDIUM	:	

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REQUEST FOR RECONSIDERATION

Sir:

~~In response to the Office Action dated January 25, 2005, Applicants request~~  
favorable reconsideration and allowance of this application in view of the foregoing  
amendments and the following remarks.

Claims 1, 3, 4, 6-10, 12-19, 24-29, 31, and 32 are pending in this application, with  
Claims 1, 10, 19, 31, and 32 being the independent claims.

Applicants request that the Examiner initial and return a copy of the PTO-1449 form  
indicating consideration of the art cited in the Information Disclosure Statement filed on  
January 13, 2004.

Claims 1, 3-4, 6-10, 12-18, 28-29, and 31-32 are rejected under 35.U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,317,127 (Daily). Claims 19 and 24-27 are rejected under 35.U.S.C. §103(a) as being unpatentable over Daily in view of U.S. Patent No. 6,624,853 (Latypov) and U.S. Patent No. 6,445,815 (Sato). Applicants respectfully traverse these rejections for the reasons discussed below.

As recited in independent Claim 1, the present invention is directed to an augmented reality presentation apparatus. Claim 1 recites, *inter alia*, the features of an objective viewpoint augmented reality presentation means that includes first video sensing means for sensing a video of a real space viewed from a first viewpoint position, which differs from any player's position, and a player's viewpoint augmented reality presentation means that includes second video sensing means for sensing a video of the real space viewed from a player's viewpoint position. Through the claimed combination of the objective viewpoint augmented reality presentation means and the player's viewpoint augmented reality presentation means, an augmented reality can be generated and displayed from a player's viewpoint and at the same time can be generated from a different viewpoint and displayed on a separate display apparatus. This would permit, for example, an audience to view from an objective viewpoint a game being played in augmented reality, while a player views the game from his viewpoint.

Figure 1 of the present application shows one preferred embodiment of the apparatus of Claim 1. In Fig. 1, for example, a camera 103 is the first video sensing means for sensing a video of a real space from a first viewpoint position and a camera 107 is a second video sensing means for sensing a video of the real space from a player's viewpoint position.

Applicants submit that the cited art fails to disclose or suggest at least the above-mentioned features recited in independent Claim 1. Daily discloses only a single camera, multi-sensor system 152 which distributes a wide FOV (field of view) video signal to a plurality of users. That patent fails to disclose or suggest more than one video sensing means for sensing a video of a real space from different viewpoints. According to Daily, a plurality of users 25 can observe videos of a virtual sphere (shown in Fig. 2) viewed from a viewpoint position at the center of the virtual sphere. However, this merely discloses video generated from a single viewpoint, i.e., at the center of the virtual sphere.

The Examiner asserts that Daily discloses multi-sensor system 152 as the first video sensing means (i.e., the objective viewpoint sensing means) and discloses an external stereo camera as the second video sensing means (i.e., the player's viewpoint sensing means). However, Applicants submit that Daily discloses the external stereo camera as prior art, and points out a drawback of that camera: "However, because the external camera is slaved to a particular user's head movement, the system is limited to a single user and does not support multiple views simultaneously." Col. 1, lines 34-37 of Daily.

Accordingly, Daily proposes a wide FOV video signal as an improvement on (i.e., a replacement for) the prior art external stereo camera. Accordingly, Applicants submit that Daily does not teach or suggest to use the multi-sensor system 152 together with the prior art external stereo camera, and that there is nothing in Daily that would lead one skilled in the art to modify Daily to use both a player's viewpoint video sensing means and an objective viewpoint video sensing means in combination.

For the foregoing reasons, Applicants submit that the present invention recited in independent Claim 1 is patentable over the cited art. Independent Claims 10, 19, 31, and

32 recite similar features and are believed patentable for similar reasons. The dependent claims are believed patentable for at least the same reasons as the independent claims, as well as for the additional features they recite.

For the foregoing reasons, Applicants submit that this application is in condition for allowance. Favorable reconsideration, withdrawal of the rejections set forth in the above-mentioned Office Action, and an early Notice of Allowance are requested.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our below-listed address.

Respectfully submitted,



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